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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- 1. (original): An organic light-light conversion device comprising:
- a light sensing unit having a layer including a photo-conductive organic

semiconductor that causes a photo-current multiplication phenomenon by light irradiation, and

a light emitting unit having a layer including an electroluminescent organic

semiconductor that emits light by current injection, characterized in that

at least one of the photo-conductive organic semiconductor and the electroluminescent organic semiconductor is a polymer semiconductor.

- 2. (original): The organic light-light conversion device according to claim 1, wherein the photo-conductive organic semiconductor is a polymer semiconductor.
- 3. (original): The organic light-light conversion device according to claim 1, wherein the electroluminescent organic semiconductor is a polymer semiconductor.
- 4. (original): The organic light-light conversion device according to any one of claims 1 to 3, wherein the photo-conductive organic semiconductor and the electroluminescent organic semiconductor are polymer semiconductors.
- 5. (currently amended): The organic light-light conversion device according to any one of claims 1 to 41 to 3, comprising:

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a) a light sensing unit having a layer including the photo-conductive organic semiconductor,

b) a light emitting unit having a layer including the electroluminescent organic semiconductor placed on a different location from the light sensing unit on the same substrate, and

c) a conductive layer connecting the light sensing unit to the light emitting unit laid on the same substrate.

- 6. (original): The organic light-light conversion device according to claim 5, wherein a light shielding member is provided between the light sensing unit and light emitting unit.
- 7. (original): The organic light-light conversion device according to claim 5, wherein a translucent member having a transmittance that suppresses but does not completely shield the flow of feedback light into the light sensing unit is provided between the light sensing unit and the light emitting unit.
- 8. (currently amended): The organic light-light conversion device according to any one of claims 1 to 41 to 3, wherein the light sensing unit having a layer including the photoconductive organic semiconductor is integrally laminated with the light emitting unit having a layer including the electroluminescent organic semiconductor.
- 9. (currently amended): The organic light-light conversion device according to any one of claims 1 to 81 to 3, wherein the polymer semiconductor contains one or more repeating units represented by the following Formula (1):

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$$\frac{\left\{\left(Ar_{1}\right)_{\mathbf{m}}\left(X_{1}\right)_{\mathbf{n}}\right\}_{\mathbf{p}}\left(Ar_{2}\right)_{\mathbf{q}}}{\mathbf{q}} \quad (1)$$

wherein Ar₁ and Ar₂ each independently represent an arylene group or a divalent heterocyclic group; X_1 represents -CR₁=CR₂-, -C=C- or -N(R₃)-; R_1 and R_2 each independently represent a hydrogen atom, an alkyl group, an aryl group, a monovalent heterocyclic group, a carboxyl group, a substituted carboxyl group or a cyano group; R₃ represents a hydrogen atom, an alkyl group, an aryl group, a monovalent heterocyclic group, an arylalkyl group or a substituted amino group; m, n and q each independently represent an integer of 0 or 1; p represents an integer of 0 to 2; and m + n and p + q are each 1 or more, provided that Ar₁, X₁, R₁, R₂ and R₃, if they are each multiple, can be respectively identical or different, and has a polystyrene-converted number average molecular weight of 1×10^3 to 1×10^8 .

- 10. (currently amended): The organic light-light conversion device according to any one of claims 1 to 91 to 3, wherein the layer including the photo-conductive organic semiconductor and/or the layer including the electroluminescent organic semiconductor contains two or more polymer semiconductors containing one or more repeating units represented by Formula (1).
- 11. (currently amended): An image intensifier characterized by comprising a plurality of the an organic light-light conversion devices according to any one of claims 1 to 10 arranged comprising:

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a light sensing unit having a layer including a photo-conductive organic
semiconductor that causes a photo-current multiplication phenomenon by light irradiation, and
a light emitting unit having a layer including an electroluminescent organic
semiconductor that emits light by current injection, characterized in that
at least one of the photo-conductive organic semiconductor and the
electroluminescent organic semiconductor is a polymer semiconductor.
12. (currently amended): A light sensor characterized by comprising the an organic
light-light conversion device according to any one of claims 1 to 10 comprising:
a light sensing unit having a layer including a photo-conductive organic
semiconductor that causes a photo-current multiplication phenomenon by light irradiation, and
a light emitting unit having a layer including an electroluminescent organic
semiconductor that emits light by current injection, characterized in that
at least one of the photo-conductive organic semiconductor and the
electroluminescent organic semiconductor is a polymer semiconductor, and a means to measure
and output a voltage applied to both ends of the layer including the electroluminescent organic
semiconductor